


Liberty Town & Country II

User Manual

Thank you for your decision to buy this product.

 Please use this product according to the instructions.
Please keep the instructions in a handy place.



Town & Country II
48 Volt Lead Acid

Introduction

Dear Customer,

Wow! You are excited! You have just received your brand new ebike. We, too, are excited because as designers and developers of our bikes, we love to make you happy, and we believe your new ebike will give you lots of fun. I know you want to get this bike on the road immediately, but please STOP!

Why? Well, first of all, you need to charge your batteries fully before using them. So, while your ebike is charging, take the time to read this manual. We have worked hard to make it as readable as possible. This manual will help prevent injury and teach you how to care for your new ebike.

► It is the owner's responsibility to carefully read all of the contents of this manual and to comply with all laws pertaining to the operation of bicycles and/or electric bicycles in your local jurisdiction. If you have any questions, please consult with the laws web page on www.iloveEbikes.com or consult your local department of motor vehicles for clarification.

► These electric bikes are not classified as motor vehicles, however, to drive them on the roads various states have differing laws.

► We have worked hard to provide you a quality, well-designed product without defects. That is our responsibility. You, too, have a part to play. With proper care, maintenance and attention to bicycle safety rules, your ebike will give you years of enjoyment.

► Please read the instructions carefully before using your ebike. Do not ride this bicycle until you have read and thoroughly understand the owner's manual. It contains information critical to your safety. If you have questions about the operation of this electric bicycle, consult your authorized dealer. It is extremely important that you follow the safety guidelines contained in this manual in order to ensure your maximum safety. If you loan your bike to anyone, make sure they also know how to operate it safely.

► When using, the load should not be greater than the maximum capacity, and please pay attention to increase the braking distance during rainy or snowy days.

► This ebike can operate in the rain and snow, but it **CANNOT** be submerged in water. When the rear wheel is submerged in water, it can cause the motor to short circuit and fail, which is **NOT** covered by the warranty.

► Please don't dismantle and repair the spare parts by yourself, but go to the local dealer.

► Please take time to record the following information:

Recording Your Ebike Info

Serial Number: _____

Model: _____

Color: _____

Date of Purchase: _____

Dealer's Name: _____

Dealer's Ph. #: _____

Dealer's Email: _____



The serial number is located under the cover above the foot rest area as shown in the picture.

Table of Contents

Introduction.....	2
Table of Contents.....	3
Assembly Instructions.....	4
General Operating Instructions.....	7
Riding Instructions.....	8
Battery Charging.....	9
Important Instructions.....	10
Safety Precautions.....	11
Maintenance.....	12
Troubleshooting.....	14
Warranty.....	15
Federal Electric Bike Law.....	16



Assembly Instructions

1. INSTALLING THE FRONT WHEEL



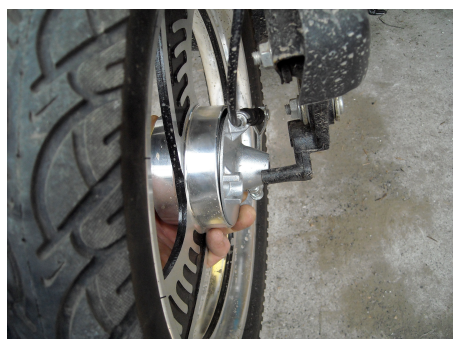
1. Showing parts for front wheel.



2. Sliding brake onto the hub.



3. Brake inserted into wheel.



4. Line up notch in brake with black rod.



5. Black rod aligned in aluminum notch.



6. Insert bolt into axle.

7. Place spacer between wheel and frame.



8. Tighten nut (recommended to put thread lock on threads for safety).



2. BRAKE ADJUSTMENT

For most bikes, the front wheel comes disassembled on your Town & Country II and will need to be mounted as in picture. The rear wheel is assembled, however, the brakes may need adjusting as shown in pictures.



2. INSTALLING THE PEDALS (Optional)

Pedals are included in your purchase. Many do not install pedals on their Town & Country II, but in some locations, local or state laws require the installation of pedals to meet local laws or restrictions. The pedal assembly includes two CRANKS (one marked with L and one with R). You must break out one of the knock-outs located at the pedal location. The square female end of the crank is placed over the square male end coming from the pedal shaft. Using the pedals require the side kick stand loop to be cut off.

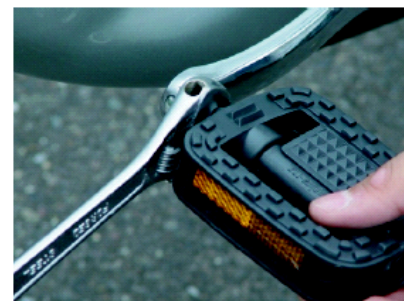
Attaching Cranks

- Assemble materials for each side: Crank, washer, bolt and plastic cap.
- Put washer on bolt and tighten crank to axles shaft.
- Put cap on to cover bolt.
- Attach the L pedal to the L crank, then R pedal to R crank.
- Place the L crank over the square end of the left shaft and use small bolt to secure the crank to the shaft. Repeat process for R crank.



- Note the left and right of the pedal.
[L] Left [R] Right are stamped on the threaded ends of the pedals.

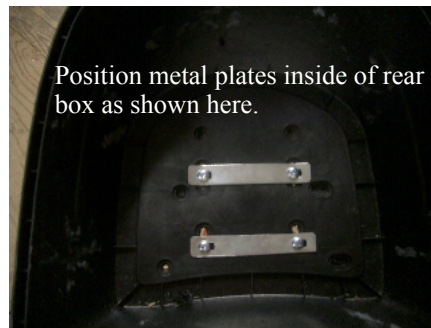
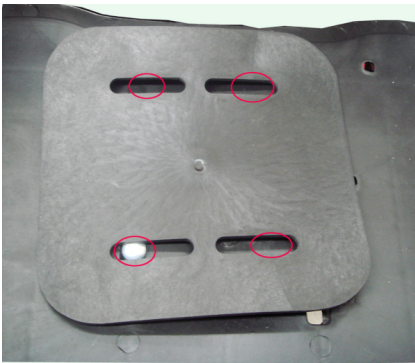
Attention: The threads will be stripped if you mistake the left and right pedal, and they won't be able to be properly fixed. (Misapplication is not covered by warranty.)



•Screw the pedal in until it's in all the way, and tighten it fully with a 15mm wrench. **NOTE:** If you install pedals on your scooter, you must remove the side kickstand as it will interfere with the left pedal. Alternatively, you can cut off with bolt cutters the loop that sticks out from the side of the kickstand.

3. INSTALLING THE REAR TRUNK (Optional)

If you purchased the optional rear trunk (tool box), it comes with 4 bolts and 4 nuts, 2 metal plates, a box, a key, and a pad (shown below). In some shipments, it may come installed. If it is not already installed, follow these instructions. The bolts go up through the rear carrier, then the pad, and into the box. Place metal plates inside box and put nuts on the bolts. Tighten securely. It is recommended that you use some LOCK-TITE or other thread-locking compound to insure that the bolts do not loosen from road vibrations.



Please fix the four screws tightly with tool.

4. INSTALLING THE MIRRORS AND WINDSHIELD (Optional)

The windshield is an option that is installed when installing the rear view mirrors.

1. Install the channel brackets underneath the nut that holds each of the rear view mirrors. The channel is the receptor for the L-bolt (shown in picture #2). **NOTE: The nut on the bottom of the bracket must be inserted up inside of the brake handle housing to ensure that the mirror will thread into the nut.**
2. On the L-bolt, screw one nut on the short end of the L-bracket and slide two plastic holders over the long end of the L-bolt.
3. Take the two chrome-colored flat brackets that have two bolts coming out of the sides and place the rubber washer over the bolts, then place the bracket from the front side of windshield through the holes in the windshield. Slide the small rubber washers over the end of the bolts to provide cushion for the bracket against the windshield.



1. Fasten channel bracket.



2. Assemble L-bracket as shown.



3. Assemble windshield brackets.



4. Fasten windshield to L-bracket.



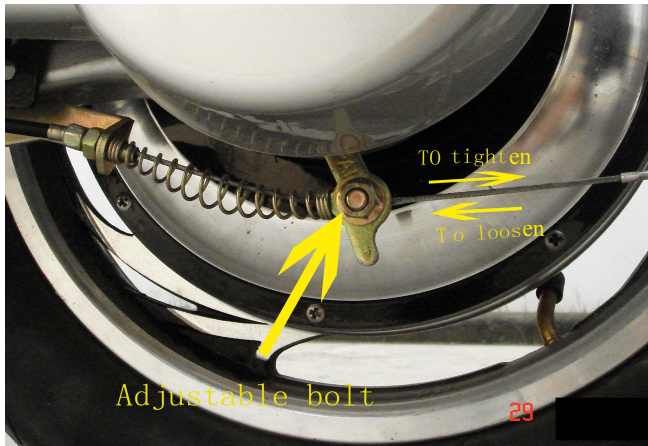
5. Windshield with bracket fastened.

If you only have the mirrors and no windshield, then screw the right and left mirrors into the threaded holes on the handle bars. Thread them in as far as possible by hand, and then tighten the nut to secure in place. Adjust to fit your preference.

5. BRAKE ADJUSTMENT

Please check front and rear brakes before you use this scooter. The adjustable bolt will allow the brake handle to tighten in order to stop you quickly. These usually need to be adjusted when they are delivered. Both front and rear brakes are adjusted down at

the wheels with the adjustable bolts. Rear brake adjustment is shown below. See assembly instructions for front brake adjustments.



General Operating Instructions

BEFORE YOU RIDE

1. Charge your battery until the green indicator light on the charger comes on.
2. Check the air pressure of the tires. Make sure they are at the recommended psi embossed on the sidewall of the tire.
3. Check the front and back brakes, and the condition of the front and back wheels, handlebar, and saddle. Make sure they are tight and fastened. Make sure all quick releases are locked and secure and that all parts are in good working order. Inspect your bike completely.
4. If it was removed, install the charged battery in the battery seat of bike and lock it.
5. Raise the kick stand.
6. Sit on the bike and turn the bike on. The power lights/meter should show your battery capacity.
7. Pedaling or using the throttle on the right hand will begin to accelerate the bike.

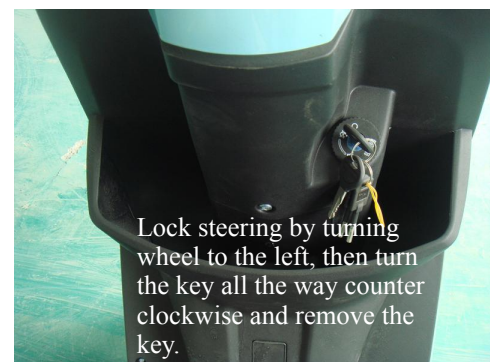
ATTENTION: After the power is on, if the rider twists the throttle the bike will lurch forward! Do not turn the power on until you are ready to go.

Some of our 744 models have a circuit breaker under the seat. This is turned OFF for shipment and safety. Before riding your bike, you must turn the circuit breaker to ON.



The brakes will automatically cut the power to the motor even if the throttle is engaged. This is for safety and protection for the motor.

ATTENTION: When riding down hills, do not turn off the power, otherwise the controller and motor will be easily damaged which is NOT covered under warranty.



While running, if the battery power is getting low, the battery meter will lessen. At this time you should pedal your ebike like a regular bike and charge the battery as soon as you get to an electrical outlet. Turn off the power and remove the key while parking. If you decide to push your bike for any reason, make sure to turn the power off, so you don't accidentally turn the throttle making the electric bicycle start suddenly and cause an accident. To help get the best distance out of your electric bike, refrain from a lot of braking and coast as much as possible.

Riding Instructions

- Lock the battery pack before you use this scooter.
- Check the air pressure in the tires before riding. The correct pressure is marked on the tires. If the tires are too soft, it will reduce the power transfer from motor. If they are too hard, it will reduce the comfort.
- Install and adjust rear view mirrors to a suitable position.
- Slowly accelerate the speed when starting for safety purpose and also to protect electronic parts from an abrupt electrical surge.
- When you use brake levers (front or rear), the motor will have the power cut off to help you stop. It will start again when you release the brake levers. For the purpose of safety and to protect electric parts, please try to back off the throttle when you are braking.
- Don't overload the scooter above the limit of 300 lb. (130 kg)
- If there was a rear box installed, don't overload it above the limit of 5 lb. (2 kg)
- It is a good practice to turn off the bike and remove the keys while your bike is parked.
- In order to avoid using the throttle accidentally, turn off the power switch when you push the scooter.
- To prolong battery range, try to look ahead and coast to a stop rather than use the brakes to stop and go.
- Use the double stand or side stand.
- There is a storage compartment under the seat; you can open it like in the photo below.

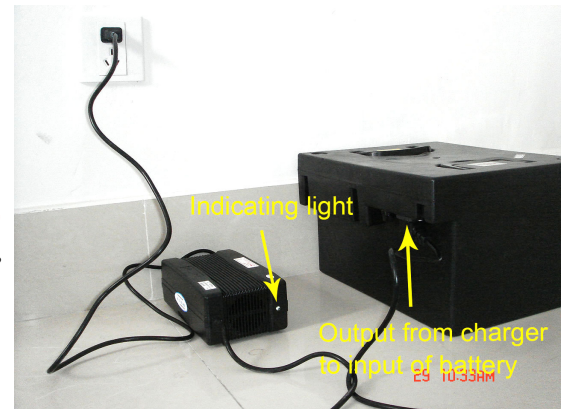


Battery Charging

It is important that you charge your batteries after every use. This will extend the total life of your battery. Once the charger has indicated that your battery is fully charged the green light will come on, unplug the power source from the bicycle and the electrical outlet and store in a cool, dry place. Do not leave the charger plugged into the battery for long periods of time as this can damage the battery.

1. Turn the key to OFF and remove the key.
2. Insert plug of the charger into charging port of the battery box or the charging port of the bike as in picture. You can charge your battery while still in the bike or you can take it out of the bike and charge where it is most convenient.
3. Insert the charger into the wall outlet. **Do not plug charger into outlet until you first plug the charger into the battery charging port.** A red light will come on. It can take up to 8 hours to recharge the battery completely. On most chargers, a green light will appear when it is fully charged.
4. When the light turns from red to green, it indicates that the battery is full. If possible, charge for an additional 2-3 more hours to fully balance the battery.

After the green light comes on, the charger is in trickle charge mode. If you will be gone for many hours, you should unplug the charger for safety. This is especially true in hot weather. The charger will become warm during charging, so keep charger away from any flammable materials. The charger may reach 185°F (85°C) during normal charging. You can also charge the battery when it is removed from the bicycle. This is especially convenient during cold nights or when your bike is not parked near an electrical outlet. Because specifications of the charger may change in the process of production, please read the information on the charger itself or the charger manual (if included) in detail before using. **Always charge the bike in a dry and clean place. Keep the charger dry and clean.**



Battery Precautions

- Do not touch the two poles of the battery with your hands when the battery is removed for charging. Also, the two battery poles should not be touched with any metal or other material that conducts electricity.
- While charging, put the battery in a secure place where children can't reach.
- Do not use any charger other than the one that came with your Liberty Electric Bike. If you need another charger, contact your local dealer.
- Do not attempt to open or repair your charger. The electronics contain high-pressure circuits, so please don't dismantle by yourself.
- Prevent liquids, metal and metal filings from permeating the charger, and be careful to not drop or hit the charger which could cause damage.
- Do not put anything on top of the charger while charging. It must be well-ventilated to allow all the heat generated to dissipate.
- When charging, if there is a peculiar smell or the temperature is too high, please stop charging immediately.
- If the battery isn't used for a long time, it should be charged once per month to ensure normal battery life. DO NOT try to use the bike if the battery is very low.
- The charger will produce heat up to **185°F (85°C)** in the course of using, so keep it away from flammable articles while using.
- It is normal that the mileage capacity will reduce as a result of low temperatures.
- While carrying the charger, DO NOT bump, drop, or damage, otherwise it may result in failure.
- Avoid any contact with water when charging your battery. If a plug or socket gets wet, dry it completely before using.
- Do not leave the charger connected to the battery and the outlet for extended periods of time.
- Always use the charger according to the instructions.

Important Instructions

►Safeguard your battery to insure continued high performance. It should be recharged after each use. The normal full-cycle battery life, if it is continuously discharged and recharged, is between 300–1000 cycles (depending on which battery came with your bike) after which the storage capacity of the battery will gradually decline.

CAUTION! Fully charge the batteries before the first use!

►Failure to do this can result in decreased battery performance for the life of the bike. Fully charge the battery each time you use the bike.

►Battery performance is affected by the temperature and is generally better in warm temperatures. When the temperature is below 32° F (0° C), the battery current may decrease by a third. Consequently, the travel range on a full charge in cold environments is much less, but will return to normal when the temperature is back to room temperature.

►Frequent stopping and starting, riding uphill, traveling against a strong wind, starting from a standstill, riding on rough or muddy roads, and carrying more than one person or heavy loads will consume extra battery power and shorten the range. A few tips to prolong the battery life during these conditions is as follows:

- Frequent braking – try to look ahead and coast rather than frequently stopping-and-starting.

- Riding uphill or against a stiff wind – pedal to supplement the battery power.

- When starting from a standstill – use the pedals to help bring you up to speed.

- When the battery meter indicates the voltage is low, switch to manual power and avoid using the battery, so you don't shorten the battery life.

►If the battery is being stored, remove the battery from the bicycle and recharge it once a month.



Always turn off the motor and remove the key from the ignition before and during charging to prevent serious damage to the controller and to the batteries!

►This electric bicycle can be used in the rain, however, **it must not be submerged in water or puddles**. The controller, motor and other electrical devices may be short circuited causing damage, which is **NOT** covered by warranty, and creating possible dangerous situations.



DO NOT use chargers or other components other than that which has been approved and tested by this company. This company is not responsible for damages caused by the use of other products not specifically designed and tested for use with this electric bike.

►Battery chargers contain sensitive electronics. Improper use, dropping, or sudden jolts can damage the charger and its internal electronics which is **NOT** covered by warranty.

►Check all nuts, bolts, screws, and spokes to make sure they are tight before riding. If any screws, nuts, or bolts are loose, put some thread lock on the threads and then tighten.



When riding down hill, you MUST have the key on even if you are NOT using the throttle and even if the battery is not in the bike. The motor will generate enough electricity to RUIN your controller which is NOT covered by warranty.

Safety Precautions

- Before operating your bicycle, inspect it carefully to avoid accidents or damage.
- Do not drive close to other vehicles.
- ALWAYS keep the power switched OFF until you are seated on the bike and ready to ride.
Turning the power on and then accidentally twisting the throttle can result in the bike lurching forward and may cause an accident, damage, or injury.
- NEVER attempt to disassemble the motor, battery, controller or throttle. This can result in injury, fire, or damage to the bike.
- ONLY use the charger supplied with your bike to charge the battery. Using the improper charger can result in fire or explosion.
- KEEP the batteries out of the reach of children.
- Obey all traffic laws relevant to the operation of bicycles and electric bicycles.
- Use the turn signals (if equipped) or hand signals at all times when making turns.
- KEEP both hands on the handlebars at all times.
- DO NOT hang objects on or under the handlebars.
- DO NOT brake suddenly in the rain or on slippery, wet surfaces.
- USE extreme caution when riding near other vehicles. Assume they do not see you, and be careful at intersections and when starting from a stopped position.
- When cleaning your electric bike, do not use a steady direct stream of water from a hose. Use a cloth to avoid short-circuiting any electrical components. Your electric bike has a durable finish and does not need to be waxed. Clean with a mild detergent and buff to restore its original shine.
- Please wear a safety helmet and glasses for your own protection whenever riding.
- Wear bright clothing to help make you visible to other motor vehicles.
- Do not wear loose clothing that can become caught on the bicycle.

MAINTENANCE

Wheels: Wheels should be properly placed in the fork or dropouts. If you hear any irregular noise from the wheels or brakes, they should be checked and adjusted. The wheels should rotate smoothly without wobbling from side to side. Check the bearing play of the hubs regularly by lifting the bicycle and spinning the wheel. It should continue to spin for several turns after you stop spinning the wheel. The motorized wheel will NOT spin as freely as the non-motorized wheel. To check the play of the hubs, try to move the rim from side to side between the forks. No substantial play should exist. If you detect play or if the wheel is difficult to turn, please contact your local dealer or your local bike shop to have it serviced.

Rims: The rims should be smooth and without cracks, breaks or bulges.

Spokes: If your bike has spokes, check their tension regularly. About the same tension should be on all the spokes. If there is some minor loosening of the spokes, you may tighten the nipples, but it is recommended that you take it to a bicycle mechanic for proper adjustment. If there is a loose spoke or if the rim has side play of more than 1/8" (4mm), immediately have the wheel trued by a bicycle mechanic. **Riding with loose spokes may cause the wheel to fail!**

Tires: Inflate your tires to the pressure embossed on the sidewall. Every time you ride, make sure the tires are properly inflated. Improper tire pressure will make riding more difficult, cause excessive wear, and cause premature failure of the tires. The tires should be properly seated in the rim and the fitting of the tire beads and rim beads should be checked. If the tube is pinched between the rim and the tire, it will fail when inflated. Make sure that the tires are not cracked or worn unevenly. Check for bulges. Check and make sure that the valve stem is straight in the rim. Irregular tires should be replaced immediately.

Handlebar and Display: We have created the handlebar display so that you can easily see it while riding. To straighten the handlebars, turn the stem binder bolt to loosen it and straighten the handlebars so they are aligned properly with the front wheel and tighten. Loose or damaged grips on your handlebars are dangerous! If your grip comes off, you could lose control of your bicycle. Replace as needed.

Brakes: Riding with brakes that are worn or damaged or with worn cables or wheels in poor condition may result in losing control of your bicycle. Wet weather may hinder the brake performance. You need more distance to safely stop in the rain or on a wet or icy street. Before each ride, check to make sure your brake cables are free of obstacles and are adjusted and working properly.

Batteries/Fuses: Your batteries are in a protective case with a handle to enable you to easily take these on and off your bike. There is a locking key to lock the batteries on your bike to discourage theft. Do not attempt to open your battery box without first contacting your dealer. This **WILL** void your warranty. If you suspect your battery is not working properly, you can test it with an inexpensive voltage meter. If you get a "zero" voltage reading, then check and replace your fuse. (Check the pages of this manual that are specific for your battery.) If this doesn't fix the issue, then contact your local dealer.

Chain: Lubricate the chain with oil every three months to ensure it stays free of rust as well as every time that it is ridden in wet weather.

Troubleshooting

Problem	Solution
A. You turn the power on, the indicator lights are all on, but with throttle or pedal assist, the ebike doesn't work.	1. Your controller needs to be replaced, or 2. Your motor needs to be replaced.
B. You turn the power on, the indicator lights are all on, bike works with throttle, but not with pedal assist.	1. Your controller needs to be replaced, or 2. Your pedal assist module needs to be replaced, or 3. Your motor needs to be replaced.
C. You turn the power on, the indicator lights are all on, bike works with pedal assist, but not with throttle.	1. Your controller needs to be replaced, or 2. Your throttle needs to be replaced, or 3. Your motor needs to be replaced.
D. You turn the power on, then twist the throttle, but the ebike doesn't work.	1. Check your battery to see if it needs to be charged, or 2. Your fuse needs to be replaced, or 3. Your controller needs to be replaced, or 4. Your motor needs to be replaced.
E. The switch is turned on, and the ebike takes off without using the throttle.	1. Check whether the throttle is stuck in the on position. 2. Lubricate or replace the throttle if it is faulty.
F. After stopping, the ebike doesn't start when the throttle is twisted.	1. Check whether the brake handles are fully released. 2. Check A., B., and C. above.
G. The speed is unusually slow.	1. Make sure throttle is operating correctly. 2. Check to see if the battery is fully charged. 3. Make sure speed limiter is not connected. (located between rear wheel and controller)
H. You connect the power to the charger, but the indicator light does not come on.	1. Check whether there is electricity to the charger. 2. If you have a voltage meter, you can check to see if the charger produces the correct current.
I. You plug in the charger to the ebike and the outlet, and the green light comes on instead of the red light. This means it isn't charging.	1. Check to see if the batteries are fully charged. 2. Check whether the charger is plugged in properly to both the battery and the outlet. 3. Check the voltage of the charger and battery. 4. If "zero" voltage on the charger, then it needs to be replaced. 5. If "zero" voltage from the battery, then check the fuse.
<p style="text-align: center;">If all above mentioned situations are normal, then there is some other problem. Please call your local Liberty ebike dealer.</p>	

Warranty

With normal care and recommended maintenance, this electric bicycle is warranted to be free of defects in materials and workmanship for the following period of time:

3 months – electronic controller, charger, and throttle

6 months – hub motor and battery

1 year – frame.

We will repair or replace, at our option, any product or part that is defective in material or workmanship without charge if the product is presented to us at our authorized Liberty Electric Bike Service Center at 1-800-806-7109 with dated proof of purchase inside of warranty period. Shipping charges are not covered under this warranty.

This limited warranty does not cover the normal wear of items such as tires, brakes, chains, and other items. All implied warranties are limited to the stated time period.

Liberty Seamless Enterprises, Inc., Liberty Electric Bike Company, and any of its subsidiaries will not be liable for any incidental or consequential damages.

This limited warranty gives you specific legal rights, and you may have other rights from state to state.

This warranty applies to normal consumer use of the product. Use in a rental fleet, commercial setting, or government fleet will void this warranty. Inappropriate use such as trick riding, abusive riding, or offroad riding will void the warranty as well as violating the instructions in this manual.

Electric Bicycle Regulations

- Federal law says that an electrically driven bicycle is considered a "bicycle" and the laws of bicycles apply if:
 - o Electrically driven bicycle has less than 750 watt motor
 - o Functional pedals
 - o Max speed is less than 20mph
- The Federal law shall supersede any State law or requirement with respect to low-speed electric bicycles. (The state must regulate the electric bicycle as a bicycle)
- Federal definition of a bicycle
 - o Sec. 1512.2. [Amended]
- § 2. Amend Sec. 1512.2, to revise paragraph (a) to read as follows:
 - (a) Bicycle means:

Federal Electric Bicycle Law HR 727



SECTION 1. CONSUMER PRODUCT SAFETY ACT.

The Consumer product Safety Act (15 U.S.C. 2051 et seq) is amended by added at the end of the following:

LOW-SPEED ELECTRIC BICYCLES

SEC. 38. (a) Notwithstanding any other provision of law, low-speed electric bicycles are consumer products within the meaning of section 3(a)(1) and shall be subject to the Commission regulations published at section 1500.18(a)(12) and part 1512 of title 16, Code of Federal Regulations.

(b) For the purpose of this section, the term 'low-speed electric bicycle' means a two- or three-wheeled vehicle with fully operable pedals and an electric motor of less than 750 watts (1 h.p.), whose maximum speed on a paved level surface, when powered solely by such a motor while ridden by an operator who weighs 170 pounds, is less than 20 mph.

(c) To further protect the safety of consumers who ride low-speed electric bicycles, the Commission may promulgate new or amended requirements applicable to such vehicles as necessary and appropriate.

(d) This section shall supersede any State law or requirement with respect to low-speed electric bicycles to the extent that such State law or requirement is more stringent than the Federal law or requirements referred to in subsection (a).

"We recommend you laminate this sheet and keep with you when riding"